

National Marine Sanctuaries
National Oceanic and Atmospheric Administration



NATIONAL MARINE
SANCTUARIES

Five things the council should know about national marine sanctuaries

1. We are mandated to do education
2. Our team works closely together to enhance our education programs
3. Our programs and audiences are diverse
4. We strive to enhance stewardship
5. We conduct systematic evaluation on all of our site education programs



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“Areas of the marine environment with special conservation, recreational, ecological, historical, cultural, archeological, or esthetic qualities...”

National Marine Sanctuary Act (sec. 301)



Our National Marine Sanctuaries





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*National Marine Sanctuaries are
Living Classrooms where People can
See, Touch, and Learn
about the Nation's Great Lakes
and Ocean Environments.*



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Education Team Structure

- Education staff at each site
- Meet monthly via call
- Meet yearly in person
- Working groups
- Education Executive Council
- Sanctuary Spotlights



Yearly Impacts



- 35,000 Students
- 1,000 Teachers
- 449,000 Visitor Centers
- 44,000,000 Visitors to informal learning centers with our exhibits
- 600 lionfish
- 30 tons of trash
- 65% of Nancy Foster scholars who are now professionals in a NOAA related field

To inspire ocean and climate literacy and conservation through national marine sanctuaries

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EDUCATION STRATEGIC PLAN 2010-2020



<http://sanctuaries.noaa.gov/education>

Office of National Marine Sanctuaries
National Oceanic and Atmospheric Administration



EDUCATION FIVE-YEAR IMPLEMENTATION PLAN 2010 – 2015



<http://sanctuaries.noaa.gov/education>

Strategic Plan



Outcome: A skilled team of education experts with a strong reputation for developing and delivering high-quality marine education materials and programs that effectively respond to ocean and Great Lakes issues in national marine sanctuaries.

Strategic Plan



ENHANCE OCEAN AND CLIMATE LITERACY THROUGH NATIONAL MARINE SANCTUARIES

Outcome: Increased number of ocean- and climate-literate people who are capable of making informed and responsible decisions that may impact the ocean and its resources.

Strategic Plan



GOAL 3

DEVELOP AND STRENGTHEN STRATEGIC EDUCATION PARTNERSHIPS

Outcome: Increased visibility of the National Marine Sanctuary System and enhanced programming through strategic and effective education partnerships.

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Laurel C



USS MONITOR CREW



CSI Monitor

Forensic experts recreate the faces of the USS Monitor sailors.



Formal Education Programs

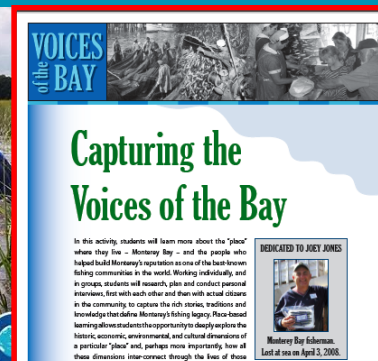
School programs

Lesson plans

Teacher workshops

MATE ROV Competitions

Ocean Guardian



Formal visitor center programs

MERITO

Dr. Nancy Foster Scholarship

Informal Education Programs



Ocean for Life

After school programs

Summer programs

Outreach for Education



Visitor Centers



Radio Programs



Apps



OceansLIVE



Social Media

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Volunteer Programs



- 140,000 volunteer hours
- Worth \$3.15 million of in-kind support and the time of 70 full time employees
- Significant impact



Climate Change and Ocean Acidification

Understanding Ocean Acidification

Our carbon emissions are making the ocean more acidic, which threatens life in our seas. Use these resources to educate yourself and others and take action.



Photo by: Steve Jurvetson

Workshops



Presentations from the Understanding Ocean Acidification workshops in coastal California.

[More](#)

Hands-On Activities



Find lesson plans and projects that show CO₂'s effect on ocean acid levels and sea life.

[More](#)

Useful Links



Continue learning from additional websites, FAQs, videos and reports available online.

[More](#)

Take the Pledge



Commit to change. Explore what you can do to reduce CO₂ emissions and make your ocean pledge.

[More](#)

Did you know?

Each year, the ocean absorbs approximately 25% of the CO₂ we emit.

A Webinar Series

SOARCE

NATIONAL MARINE SANCTUARIES

OAP
OCEAN ACIDIFICATION PROGRAM

Sharing Ocean Acidification Resources for Communicators & Educators

NNOCCI National Network for Ocean and Climate Change Interpretation

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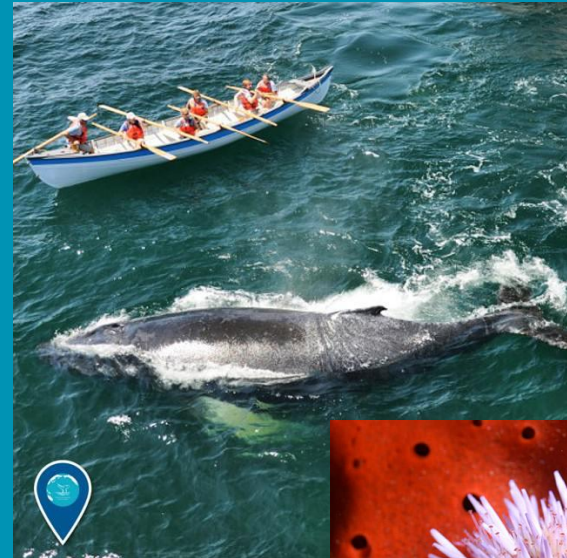


Evaluation

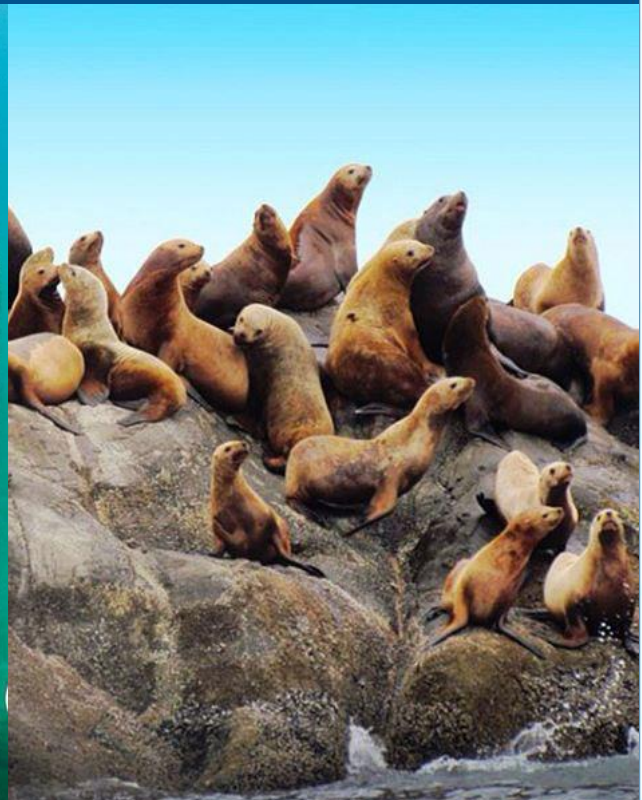
National marine sanctuaries help protect the ocean and Great Lakes

People need the ocean and the ocean needs us

People are changing the climate



What are our needs and how can the NOAA education council help?



NOAA Education Council Activities

Increased capacity for working with diverse audiences

- Help create best practices or professional development for working with diverse audiences, share programs that are successful and scale up. Obj 1.1, 2.1, 4.1

Enhanced evaluation

- Help create evaluation tools for visitor centers, partner organizations who have our exhibits, attendance at conferences, and public outreach booths. Obj 1.1, 1.2, 1.3, 2.1, 4.1

NOAA Education Council Activities

Professional Development

- Enhance NOAA wide professional development opportunities to get largest impact with limited resources. Topics may include: interpretation, climate communication, NGSS, evaluation, etc. Obj 5.3

Knowledge of and ability to incorporate emerging technology

- Staying on top of the pulse on how students learn – for instance ipads in the classroom or smart phone apps to collect data Obj 5.3

NOAA Education Council Activities

Common Climate Change Messages

- NOAA wide adoption of climate change messages, preferably that align with the NPS and Fish and Wildlife so we are all “speaking the same language” Obj 5.3

Enhanced ways to find NOAA resources

- Ensure NOAA resources are easy to find via websites, search engines and a “one stop shop” location Obj 1.1, 1.2, 1.3, 5.3

NOAA Education Council Activities

ONMS Educators agreed strongly with NERRS suggestions of:

- Develop Capacity to Better Publicize our Messages to the Public (NERRS)
- Help NERRS/ONMS Educators better understand how to access NOAA Data/Science and translate into education materials

Questions?



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